

REMARKS

Claims 1-20 were pending after the Office Action of November 15, 2006. Claims 1, 2, 4-6, 8-11, 13-15, 17, and 20 have been amended. Claims 3, 12, and 16 have been cancelled. Reconsideration of the above-identified application in view of these amendments and the following remarks is respectfully requested.

I. Objection to Claims 4, 5, and 17

Claims 4, 5, and 17 were objected to due various informalities. These claims have been amended in the manner suggested in the Office Action. It is thus respectfully requested that the objection to claims 4, 5, and 17 be withdrawn.

II. Rejection of Claims 1-20 under 35 U.S.C. §112

Claims 1-20 have been rejected as indefinite under 35 U.S.C. §112 as claiming the detection of a signal, but failing to demonstrate in a manner comprehensible to one skilled in the art how the signal would be detected by the claimed systems and methods. The preambles of each independent claim (1, 9, and 13) have been amended to recite the detection of at

least on characteristic of a signal, and a selection step has been added that recites the selection of a search value representing a pulse repeat value for the signal.

Accordingly, the withdrawal of the rejection of claims 1-20 under 35 U.S.C. §112 is respectfully requested.

III. Rejection of Claims 1, 2, 7-11, 13, 14, 19, and 20 under 35 U.S.C. §103

Claims 1, 2, 7-11, 13, 14, 19, and 20 have been rejected as unpatentable under 35 U.S.C. §103(a) over various combinations of U.S. Patent No. 7,103,339 to Sternberg et al., U.S. Patent No. 6,717,992 to Cowie et al., U.S. Patent No. 5,841,400 to Hiramatsu, and U.S. Patent No. 6,178,197 to Froelich et al. Claims 3-6, 12, and 15-18 were not rejected on the art, and were only rejected under 35 U.S.C. §112.

Claim 1 has been amended to incorporate the subject matter of claim 3, with some revisions helpful in addressing the rejection under 35 U.S.C. §112. Specifically, the integration step is repeated to generate multiple search values, each representing an associated pulse repeat interval. Claims 9 and 13 have been amended in a similar manner to

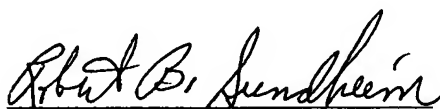
incorporate the subject matter of claims 12 and 16 respectively. It is this respectfully submitted that in light of the current amendment, claims 1, 2, 4-11, 13-15, and 17-20 define patentable invention over the cited art.

IV. Conclusion

In light of the amendment and remarks above, it is submitted that claims 1-20 are now in condition for allowance. Allowance of the subject application is thus respectfully requested.

Please charge any deficiency or credit any overpayment in the fees for this amendment to our Deposit Account No. 20-0090.

Respectfully submitted,



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